Released: June 2010
Next MECS will be conducted in 2010
Table 10.25
Reasons that Made Residual Fuel Oil Unswitchable, 2006;
Level: National Data;
Row: NAICS Codes;
Column: Reasons that Made Quantity Unswitchable;
Unit: Million barrels.

Reasons that Made Residual Fuel Oil	Unswitchable

NAICS Code(a)	Subsector and Industry	Total Amount of Residual Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Residual Fuel Oil Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable Alternative Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)	Unavailable Storage for Alternative Fuels(d)	Another	Combinations of Columns F, G, H, I, J, and K	Don't Know
			Total United States									
311	Food	4,124		280	16		35		0	0	0	
3112	Grain and Oilseed Milling	260 27		29 27	16		0		0	0	0	
311221 31131	Wet Corn Milling Sugar Manufacturing	1,359		48	0		0		0	0	0	
3114	Fruit and Vegetable Preserving and Specialty Foods	393		0	0		0	-	0	-	0	-
3115	Dairy Products	209			Ö		Ö		0	0	0	
3116	Animal Slaughtering and Processing	539			0		35		0	0	0	
312	Beverage and Tobacco Products	431	107	48	0		0		0	0	0	
3121 3122	Beverages Tobacco	290 141	58 49	0 48	0		0	0	0	0	0	0 1
3122	Textile Mills	396		48 Q	0		0	0	0	0	0	54
314	Textile Product Mills	Q		Q	0		0	0	0	0	0	
315	Apparel	Q			0		Ö	0	0	Ō	0	0
316	Leather and Allied Products	42			0		0	0	0	0	0	
321	Wood Products	604	117	87	0	, ,	0		0	0	0	
321113 3212	Sawmills	58 64		28 59	0	-	0	-	0	0	0	
3212 3219	Veneer, Plywood, and Engineered Woods Other Wood Products	04 Q	59 0		0		0		0	0	0	
322	Paper	14,528		6,873	189		492		0	0	141	
322110	Pulp Mills	1,796		1,073	0		58		0	0	0	
322121	Paper Mills, except Newsprint	7,521	5,290	4,449	0		434		0	0	5	
322122	Newsprint Mills	373		307	0		0		0	0	0	
322130	Paperboard Mills	4,555		1,012	189		0	-	0	0	136	
323 324	Printing and Related Support Petroleum and Coal Products	Q 9,198		802	0		0 88		0 12	0	0	
324110	Petroleum Refineries	8,292			0		88		12		0	
324199	Other Petroleum and Coal Products	0			0		0		0	0	0	
325	Chemicals	3,733		839	0	0	474	128	0	0	0	
325110	Petrochemicals	732		593	0		0	-	0		0	
325120	Industrial Gases	0			0		0		0	0	0	
325181 325182	Alkalies and Chlorine Carbon Black	0 72			0	-	0	-	0	0	0	
325188	Other Basic Inorganic Chemicals	1,406			0		474		0	0	0	
325192	Cyclic Crudes and Intermediates	93			Ö		0		0	0	Ö	
325193	Ethyl Alcohol	0			0	0	O	0	0	0	0	0
325199	Other Basic Organic Chemicals	254			0	-	0		0	0	0	
325211	Plastics Materials and Resins	58			0		0		0	0	0	0
325212 325222	Synthetic Rubber	5 434			0		0	0	0	0	0	
325222	Noncellulosic Organic Fibers Nitrogenous Fertilizers	434	0		0	-	0	-	0	0	0	0
325311	Phosphatic Fertilizers	39			0	-	0	-	0	0	0	
3254	Pharmaceuticals and Medicines	173			0	0	Ö	128	0	0	0	
325412	Pharmaceutical Preparation	173			0	0	0	128	0	0	0	
325992	Photographic Film, Paper, Plate, and Chemicals	21	18		0		0		0	0	0	
326 327	Plastics and Rubber Products	1,414		Q	0		0		0	0	0	
327 327211	Nonmetallic Mineral Products Flat Glass	513 218		Q 0	0	-	0		0	0	81 0	
327212	Other Pressed and Blown Glass and Glassware	0			0		0		0	0	0	
327213	Glass Containers	0			Ö		Ö		0	0	Ö	
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0	0
327310	Cements	156		0	0		0	0	0	0	81	
327410	Lime	60			0	-	0	0	0	0	0	
327420 327993	Gypsum Mineral Wool	0	0		0	-	0	0	0	0	0	
331	Primary Metals	3,097	545		530		0	-	0	0	0	
331111	Iron and Steel Mills	3,042		10	530		0		0	0	0	
331112	Electrometallurgical Ferroalloy Products	0,0.2			0		Ö	-	0	0	0	
3312	Steel Products from Purchased Steel	0	0	0	0		Ö	0	0	0	0	0
3313	Alumina and Aluminum	43			0		0		0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	18		0	0		0		0	0	0	
331315	Aluminum Sheet, Plate and Foils	0	•	0	0		0		0	0	0	
331316	Aluminum Extruded Products	4	0	0	Ü	0	Ü	0	0	0	0	0

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NAICS Code(a)	Subsector and Industry	Total Amount of Residual Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Residual Fuel Oil Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable Alternative Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)		Another		Don't Know
3314	Nonferrous Metals, except Aluminum	10	3	3	0	0	(0	0	0	0	0
3315	Foundries	Q	Q	Q	0	0	(0	0	0	0	0
331511	Iron Foundries	*	0	0	0	0	(0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	(0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	Q	Q	Q	0	0	(0	0	0	0	0
332	Fabricated Metal Products	Q	Q	Q	0	0	(0	0	0	0	9
333	Machinery	Q	0	0	0	0	(0	0	0	0	0
334	Computer and Electronic Products	58	Q	Q	0	0	(0	0	0	0	0
334413	Semiconductors and Related Devices	4	4	4	0	0	(0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	(0	0	0	0	0
336	Transportation Equipment	1,038	194	192	0	1	,	0	*	0	0	Q
336111	Automobiles	27	20	20	0	0	(0	*	0	0	0
336112	Light Trucks and Utility Vehicles	6	0	0	0	0	(0	0	0	0	0
3364	Aerospace Product and Parts	490	106	104	0	1	(0	0	0	0	Q
336411	Aircraft	1	1	0	0	1	(0	0	0	0	0
337	Furniture and Related Products	Q	*	*	0	0	(0	0	0	0	0
339	Miscellaneous	Q	*	*	0	0	(0	0	0	0	0
	Total	39,925	13,283	9,840	734	589	1,089	128	12	0	222	668

⁽a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate. Source: Energy Information Administration, Office of Energy Markets and End

Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.

⁽b) The environmental resrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

⁽c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

⁽d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NF=No applicable RSE row/column factor.

^{*} Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.